

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB 03/05226A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B7/007 G11B7/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 545 713 A (GEN ELECTRIC) 9 June 1993 (1993-06-09) column 3 - column 5	1-8
X	US 6 381 208 B1 (ABE KAZUTAKA ET AL) 30 April 2002 (2002-04-30) cited in the application column 4	1-8
A	US 6 320 699 B1 (KIKUCHI IKUYA ET AL) 20 November 2001 (2001-11-20) column 5 - column 6	1-10
A	US 2002/150016 A1 (OGATA DAISUKE ET AL) 17 October 2002 (2002-10-17) page 6 - page 8	1-10 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

19 February 2004

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27/02/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	US 6 584 065 B1 (PIONEER ELECTRONIC CORP) 24 June 2003 (2003-06-24) column 6 - column 11	1-10
A	& JP 2001 167443 A (PIONEER ELECTRONIC CORP) 22 June 2001 (2001-06-22) cited in the application	1-10
A	EP 1 205 923 A (NIPPON ELECTRIC CO) 15 May 2002 (2002-05-15) cited in the application column 10 - column 12	1-10

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Information on patent family members

International application No

PCT/IB 03/05226

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0545713	A	09-06-1993	US	5157555 A		20-10-1992
			EP	0545713 A1		09-06-1993
			JP	5266511 A		15-10-1993
US 6381208	B1	30-04-2002	JP	2000315323 A		14-11-2000
US 6320699	B1	20-11-2001	JP	2000235725 A		29-08-2000
US 2002150016	A1	17-10-2002	CN	1380646 A		20-11-2002
			JP	2002373441 A		26-12-2002
US 6584065	B1	24-06-2003	JP	2001167443 A		22-06-2001
JP 2001167443	A	22-06-2001	US	6584065 B1		24-06-2003
EP 1205923	A	15-05-2002	JP	2002150569 A		24-05-2002
			EP	1205923 A2		15-05-2002
			US	2002054554 A1		09-05-2002

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